

On-site handling of YELOFOAM X Extruded Polystyrene

Product

YELOFOAM X (extruded polystyrene)

Manufacturer

Cellecta Limited, Units 5 & 6 Burnt Ash Road, Aylesford, Kent ME20 7XB

Composition

Extruded polystyrene foam blown with a mix of HFC & CO₂ gases, containing a yellow pigment, flame retardant additive and nucleating agent.

Physical properties

Colour: Pale yellow

Appearance: Multi cellular rigid foam board

Cell structure: Closed

Density: 30kg - 40kg

Thermal conductivity: 0.029 – 0.034W/mK (BS EN 12667: 2001)

Water solubility: None

Maximum working temperature: 75°C

Decomposition: > 285°C

Auto ignition temperature: >500°C

Fire rating: Type A BS3837 Part 1:1986

Note: YELOFOAM X is classified as a non-hazardous material according to EU criteria.

Material stability

Conditions to avoid: YELOFOAM X should not be used where working temperatures exceeding 75°C.

Chemical stability: YELOFOAM X is stable under recommended storage conditions.

Materials to avoid: Oils, petrol, aromatic hydrocarbons and organic solvents.

Toxicological information

Skin contact: YELOFOAM X is considered to be physiologically inert. Material, if handled correctly will not have adverse affect.

Eye Contact: Solid or dust particles may cause irritation or corneal injury due to mechanical action.

First Aid

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

Inhalation: If affects occur remove to fresh air and consult a physician.

Skin contact: No adverse affect anticipated.

Eye contact: Mechanical irritation only. Wash with cold water for at least five minutes.

Ingestion: Consult a physician

Storage

The boards are packed in opaque polythene film to protect them from ultra violet degradation. The surface of the boards will degrade to a fine dust if the boards are exposed to a long period in sunlight. Packs stored outside should be covered with a tarpaulin sheet.

Fire fighting measures

Protection to fire-fighters: Protective-pressure self contained breathing apparatus and full protective fire-fighting clothing must be worn.

Extinguishing tool: Fine spray, water fog, powder and CO₂ extinguishers.

Combustion products: Test have shown that YELOFOAM X is no more toxic than of combustion products of common building material, such as wood. When combustion occurs the main output is carbon. The decomposition gases are made up of carbon dioxide and water with traces of Carbon Oxide (CO), hydrochloric acid (HCl) and Hydrofluoric acid (HF).

Method of fire fighting: Extinguish the fire with powder CO₂, or apply a large volume of water directly on the flame of the burning surface. Soak thoroughly with water to cool and prevent re-ignition.

Should further information be required contact Collecta's technical office on (08456) 717174